

U.S. Application Serial No. 09/647,332
Reply to Office Action of October 31, 2006

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IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

Claim 1. (currently amended) A transmitting apparatus for transmitting contents data and corresponding meta data over a network, comprising:

contents storing means for storing contents data and corresponding meta data in a broadcast format;

meta data schema storing means for storing a meta data schema defining a data structure for said meta data that is compatible with a network transmission format;

contents segmenting means for segmenting said contents data and generating segmentation information of the contents data, the segmentation information identifying a particular segment of the contents data so that the particular segment of contents data from different mediums may be identified with a same identifier;

contents converting means for converting the segmented contents data into said network transmission format;

meta data combining means for combining the corresponding meta data and segmentation information for the segmented contents data;

meta data converting means for converting the meta data and segmentation data from the broadcast format into the network transmission format;

meta data schema converting means for converting the meta data schema into the network transmission format; and

U.S. Application Serial No. 09/647,332
Reply to Office Action of October 31, 2006

PATENT
450106-02305

transmitting means for transmitting the converted meta data and segmentation information, the converted meta data schema, and the converted contents data in the network transmission format over the network.

Claim 2. (currently amended) A transmitting apparatus for transmitting contents data and corresponding meta data over a network, comprising:

contents storing means for storing contents data and corresponding meta data in a broadcast format;

meta data schema storing means for storing a meta data schema defining a data structure for said meta data that is compatible with a network transmission format;

contents segmenting means for segmenting said contents data and generating segmentation information of the contents data, the segmentation information identifying a particular segment of the contents data so that the particular segment of contents data from different mediums may be identified with a same identifier;

contents converting means for converting the segmented contents data into said network transmission format;

segmentation information storing means for storing the segmentation information of the contents data;

meta data combining means for correlating an identifier of the segmentation information with the corresponding meta data for the segmented contents data;

meta data converting means for converting the meta data and identifier into the network transmission format;

U.S. Application Serial No. 09/647,332
Reply to Office Action of October 31, 2006

PATENT
450106-02305

meta data schema converting means for converting the meta data schema from the broadcast format into the network transmission format;

segmentation information converting means for converting the segmentation information into the network transmission format; and

transmitting means for transmitting the converted meta data and identifier, the converted meta data schema, the converted segmentation information, and the converted contents data in the network transmission format over the network.

Claim 3. (previously presented) The transmitting apparatus as set forth in claim 1, wherein said meta data schema converting means converts the meta data schema and represents the meta data schema in an MPEG system section format.

Claim 4. (previously presented) The transmitting apparatus as set forth in claim 1, wherein said meta data converting means converts the meta data with the segmentation information and represents the meta data with the segmentation information in a descriptor format of an MPEG system section.

Claim 5. (currently amended) A receiving apparatus for receiving contents data and corresponding meta data transmitted over a network, comprising:

receiving means for receiving segmented contents data, corresponding meta data and segmentation information, and a meta data schema in a network transmission format from the network.]]]]

U.S. Application Serial No. 09/647,332
Reply to Office Action of October 31, 2006

PATENT
450106-02305

wherein said corresponding meta data includes electronic program guide data converted for transmission from a broadcast transmission format into said network transmission format, and wherein the segmentation information identifies a particular segment of the contents data so that the particular segment of contents data from different mediums may be identified with a same identifier;

meta data schema storing means for storing the received meta data schema defining a data structure for the corresponding meta data;

meta data storing means for storing the received meta data and segmentation information corresponding to the segmented contents data;

meta data analyzing means for analyzing the stored meta data and segmentation information on the basis of the meta data schema; and

contents reproduction controlling means for controlling reproduction of the segmented contents data on the basis of the segmentation information analyzed by said meta data analyzing means.

Claim 6 (currently amended) A receiving apparatus for receiving contents data and corresponding meta data transmitted over a network, comprising:

receiving means for receiving segmented contents data, corresponding meta data and an identifier, segmentation information, and a meta data schema in a network transmission format from the network. [;]

wherein said corresponding meta data includes electronic program guide data converted for transmission from a broadcast transmission format into said network transmission format, and wherein the segmentation information identifies a particular

U.S. Application Serial No. 09/647,332
Reply to Office Action of October 31, 2006

PATENT
450106-02305

segment of the contents data so that the particular segment of contents data from different mediums may be identified with a same identifier;

meta data schema storing means for storing the received meta data schema
defining a data structure for the corresponding meta data;

meta data storing means for storing the received meta data and identifier
corresponding to the segmentation information for the contents data;

segmentation information storing means for storing the received segmentation
information;

meta data analyzing means for analyzing the stored meta data on the basis of the
meta data schema, and the stored segmentation information on the basis of the identifier;
and

contents reproduction controlling means for controlling reproduction of the
segmented contents data on the basis of the segmentation information analyzed by said
meta data analyzing means.

Claim 7. (previously presented) The transmitting apparatus as set forth in claim 2,
wherein said meta data schema converting means converts the meta data schema and represents
the meta data schema in an MPEG system section format.

Claim 8. (previously presented) The transmitting apparatus as set forth in claim 2,
wherein said meta data converting means converts the meta data with the segmentation
information and represents the meta data with the segmentation information in a descriptor
format of an MPEG system section.